

Title (en)
Method for manufacturing isobutene

Title (de)
Verfahren zur Herstellung von Isobuten

Title (fr)
Procédé de fabrication d'isobutène

Publication
EP 2620214 B1 20150318 (DE)

Application
EP 12196240 A 20070711

Previously filed application
07112223 20070711 EP

Priority
• DE 102006040432 A 20060829
• EP 07112223 A 20070711

Abstract (en)
[origin: EP1894621A1] Producing a catalyst comprising 0.1-20 wt.% alkali(ne earth) metal oxide, 0.1-99 wt.% aluminum oxide and 0.1-99 wt.% silicon dioxide comprises treating an aluminosilicate with an aqueous alkali(ne earth) metal salt solution and calcining the product. Independent claims are also included for: (1) catalyst comprising 0.5-20 wt.% alkali(ne earth) metal oxide, 4-30 wt.% aluminum oxide and 60-95 wt.% silicon dioxide; (2) producing isoolefins of formula (I) by gas-phase decomposition of an alcohol or ether of formula (II) at 110-450[deg] C and 0.1-2 MPa using a catalyst as above. R 1>CH=CR 2>R 3> (I) R 1>CH 2-CR 2>R 3>-OR (II) R, R 1> : H, Me or Et; R 2>, R 3> : Me or Et. ACTIVITY : ACTIVITY - MECHANISM OF ACTION : MECHANISM OF ACTION .

IPC 8 full level
B01J 21/12 (2006.01); **B01J 23/02** (2006.01); **B01J 37/02** (2006.01); **C07C 1/20** (2006.01); **C07C 29/00** (2006.01); **B01J 29/03** (2006.01); **B01J 29/08** (2006.01); **B01J 29/40** (2006.01); **B01J 35/10** (2006.01); **C07C 11/09** (2006.01)

CPC (source: EP KR US)
B01J 19/30 (2013.01 - EP US); **B01J 19/32** (2013.01 - EP US); **B01J 21/12** (2013.01 - EP KR US); **B01J 23/02** (2013.01 - EP KR US); **B01J 37/0201** (2013.01 - EP US); **B01J 37/0213** (2013.01 - EP US); **C07C 1/20** (2013.01 - EP US); **C07C 1/24** (2013.01 - EP US); **B01D 3/009** (2013.01 - EP US); **B01J 29/0308** (2013.01 - EP US); **B01J 29/08** (2013.01 - EP US); **B01J 29/40** (2013.01 - EP US); **B01J 35/615** (2024.01 - EP US); **B01J 35/635** (2024.01 - EP US); **B01J 35/638** (2024.01 - EP US); **B01J 35/647** (2024.01 - EP US); **B01J 37/0225** (2013.01 - EP US); **B01J 2219/30408** (2013.01 - EP US); **B01J 2219/30475** (2013.01 - EP US); **B01J 2219/32416** (2013.01 - EP US); **B01J 2219/32466** (2013.01 - EP US); **B01J 2229/18** (2013.01 - EP US); **C07C 2521/10** (2013.01 - EP US); **C07C 2521/12** (2013.01 - EP US); **Y02P 20/10** (2015.11 - EP US); **Y02P 20/582** (2015.11 - EP US)

C-Set (source: EP US)
1. **C07C 1/20 + C07C 11/09**
2. **C07C 1/24 + C07C 11/09**

Cited by
CN111085245A

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DOCDB simple family (publication)
EP 1894621 A1 20080305; EP 1894621 B1 20130403; CN 101134169 A 20080305; CN 101134169 B 20151125; DE 102006040432 A1 20080320; EP 2620214 A2 20130731; EP 2620214 A3 20140101; EP 2620214 B1 20150318; ES 2420481 T3 20130823; ES 2538697 T3 20150623; HU E025494 T2 20160428; JP 2008055420 A 20080313; JP 2012152741 A 20120816; JP 5026893 B2 20120919; JP 5638019 B2 20141210; KR 101442827 B1 20140923; KR 20080020524 A 20080305; PL 1894621 T3 20130930; PL 2620214 T3 20150831; SG 140529 A1 20080328; TW 200831184 A 20080801; TW I430836 B 20140321; US 2008058573 A1 20080306; US 2011152596 A1 20110623; US 7977523 B2 20110712; US 8680356 B2 20140325

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